



ALTERATION FIRE SAFETY PRE-INSPECTION CHECKLIST

From time to time our offices receive inquiries by homeowners on how to upgrade their pre-HUD homes to approach the HUD standards in the area of fire safety (as listed below). Local county/city jurisdictions or insurance company requirements usually generate these inquiries. Generally, these agencies will not accept a pre-HUD home that has its light and receptacle circuits wired in aluminum, or has not been built to the HUD fire safety requirements and egress window requirements of the federal "Manufactured Home Construction and Safety Standards, Part 3280."

This checklist is designed to be generic in content and may not include all requirements for your particular installation. The manufacturer's installation instruction must be adhered to and available to the inspector at the time of the inspection. Be sure you can answer YES to all of the questions before calling for inspection. Failure of the inspection will require a reinspection fee to be paid.

Please call your local L & I Factory Assembled Structures Inspector with any questions. (Revised 8/03)

REFERENCE

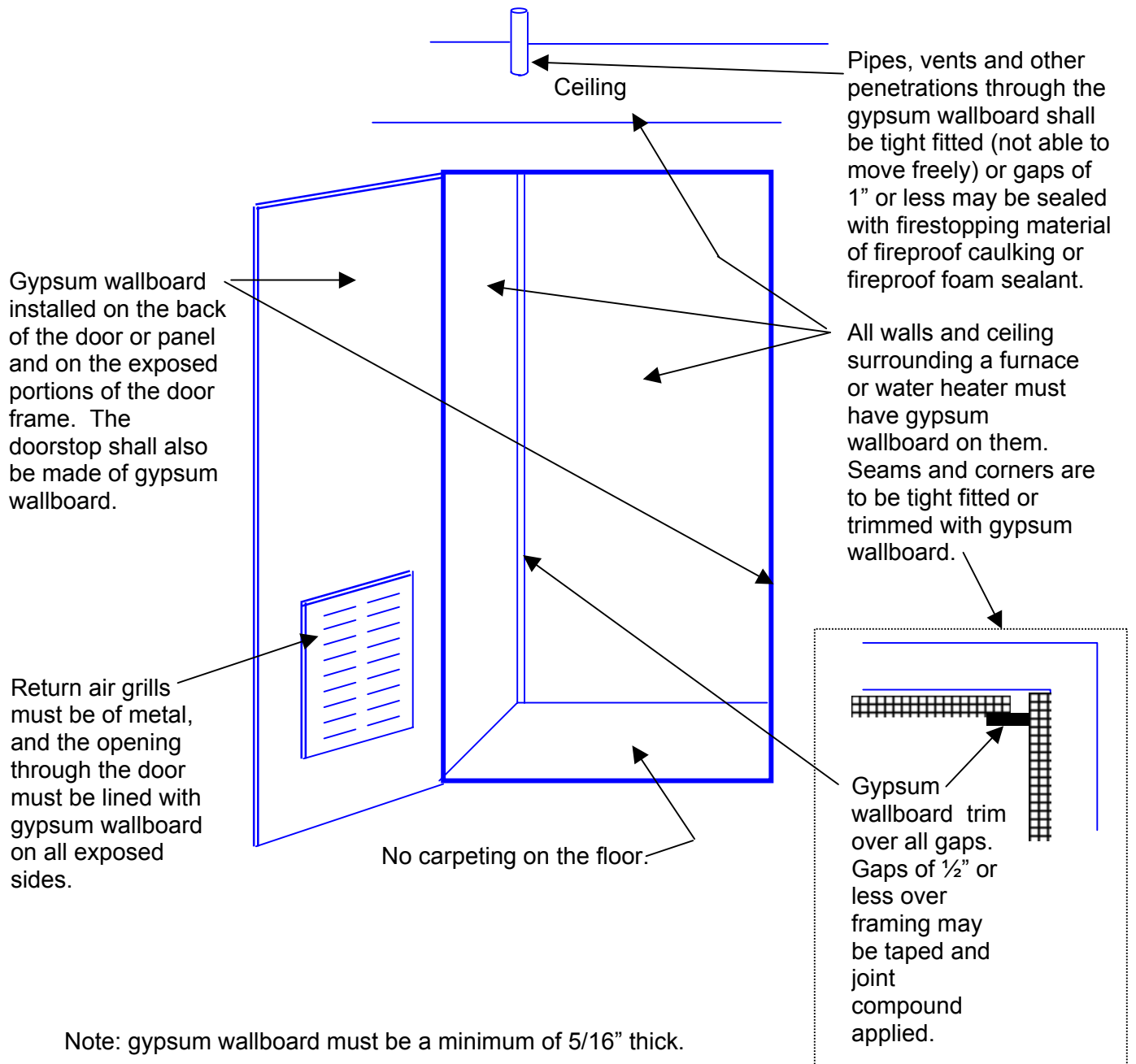
COMPLIANCE

		Yes	No
WAC 296-150M-0309	Alteration Permit and Insignia purchased	<input type="checkbox"/>	<input type="checkbox"/>
3280.801(e)	Aluminum wiring is NOT acceptable for use in 15 and 20 amp branch circuits. You may do any of the following to correct the use of aluminum wiring:		
	1.) rewire the 15 and 20 amp branch circuits in copper;	<input type="checkbox"/>	<input type="checkbox"/>
	2.) install receptacle and switches that are approved for the use of either aluminum or copper (i.e. - they will be marked AL/CU); or	<input type="checkbox"/>	<input type="checkbox"/>
	3.) install copper "pig tail" connections using wiring nuts approved for aluminum wires between the aluminum wire and the receptacle/switches/light fixtures/bath fans/range hoods.	<input type="checkbox"/>	<input type="checkbox"/>
	NOTE: if the wire from a light fixture/range hood/etc. is already copper it will only be necessary to replace the wire nut with a wire nut acceptable for aluminum wire.		
	4.) If the circuit breakers in the electrical panel for 15 and 20 amp circuits are not approved for aluminum wire the breakers either need to be replaced with those that are acceptable for aluminum wire or the need to be pigtailed with copper wire and wire nuts acceptable for aluminum wire.	<input type="checkbox"/>	<input type="checkbox"/>
3280.106 & .404	Egress windows per the attached drawings are installed in each bedroom	<input type="checkbox"/>	<input type="checkbox"/>
3280.203(b)(3) & (c)(1)	Walls, doors and ceilings in the water heater and furnace compartments are protected per the attached drawings	<input type="checkbox"/>	<input type="checkbox"/>
3280.203(b)(4); (c)(1) & (c)(2)	Exposed surfaces adjacent to the cooking range/cooktop and kitchen cabinets are protected per the attached drawing	<input type="checkbox"/>	<input type="checkbox"/>
3280.204			
3280.208	Permanent wired smoke detector(s) shall be installed per the attached drawings.	<input type="checkbox"/>	<input type="checkbox"/>
	<i>A listed smoke alarm with listed 10 yr. battery can be substituted.</i>		

NOTE: Any other alterations to the home that have not previously inspected and approved by the department will cause the approval of this inspection to be denied.

Furnace and Water Heater Compartments

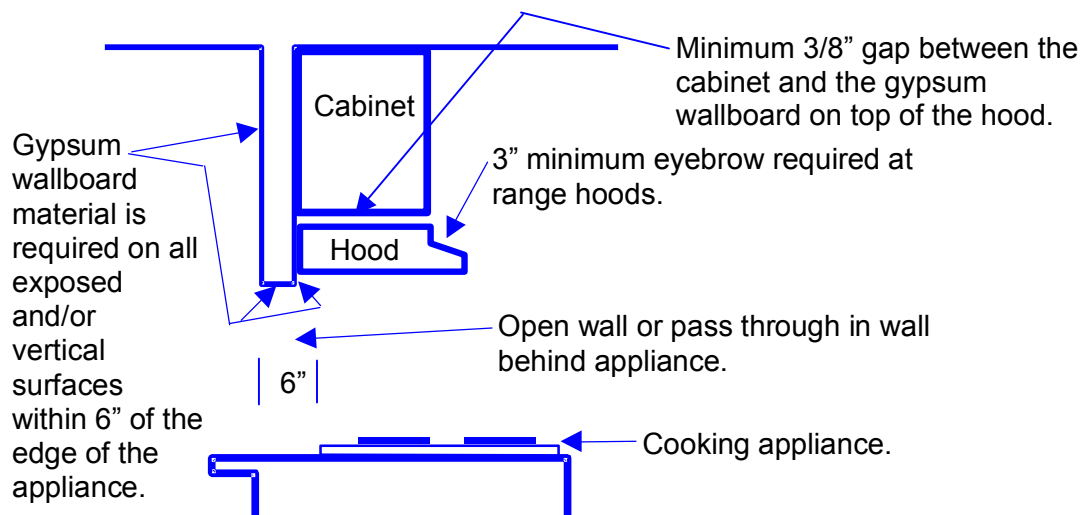
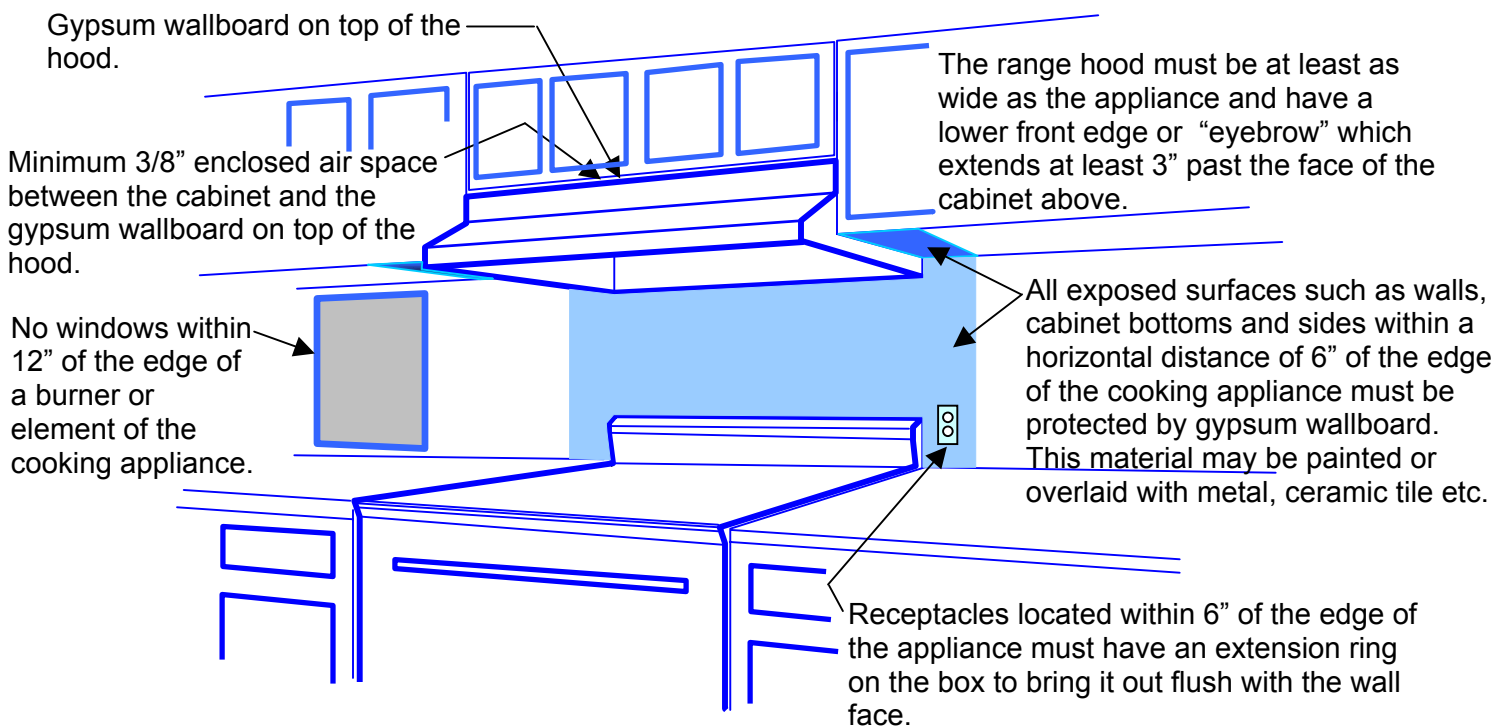
Fire protection of furnace and water heater compartments in
manufactured and mobile homes.



Cooking Appliances

Fire protection of surfaces in the area of cooking appliances in manufactured and mobile homes.

The surfaces of the exposed walls adjacent to and within 6" of a range or cooktop appliance must be composed of gypsum wallboard. Kitchen cabinets constructed of combustible material that are located above a range or cooktop must be a minimum of 24 inches above the cooking surface. The cabinets must be protected on the bottom and on exposed sides within 6 inches of either side of the appliance, by covering the surface with gypsum wallboard and installing a metal hood above the cooking appliance.



Emergency Egress Windows.

Minimum requirements for emergency egress windows in
Manufactured and Mobile Homes.

Every bedroom or other room designed expressly for sleeping purposes must have a window that meets the minimum requirements for emergency egress. Rooms that have a door, with a minimum clear opening of 28" wide by 72" high, which opens directly to the outside do not need to have an emergency egress window. A label on the window with wording that it meets AAMA Standard 1704 indicates that the windows meet the "Voluntary Standard for Egress Window Systems in Manufactured Housing". This label is not required as long as the window meets the minimum dimensional requirements shown below. Egress windows and devices must be installed in a manner, which allows for proper operation. Caution: a window may meet the minimum width and height requirements and still not meet the minimum opening area requirement. *Note: a sill height of up to 44" maybe used when the window area is increased to a net clear openable area to 5.7 square feet per 1997 UBC 310.4.*

When you multiply the clear width of the opening portion of the window by the clear height of the opening portion of the window there must be at least 720 square inches (5.0 s.f.) of opening.

Example #1: 20"w x 36"h = 720 Sq.In.

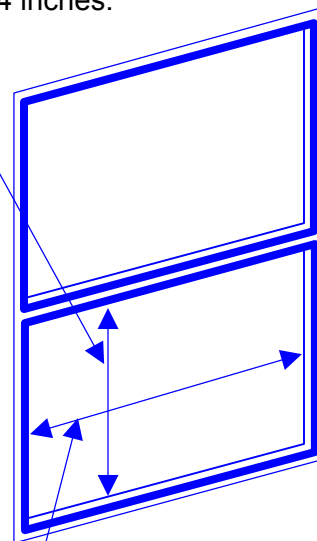
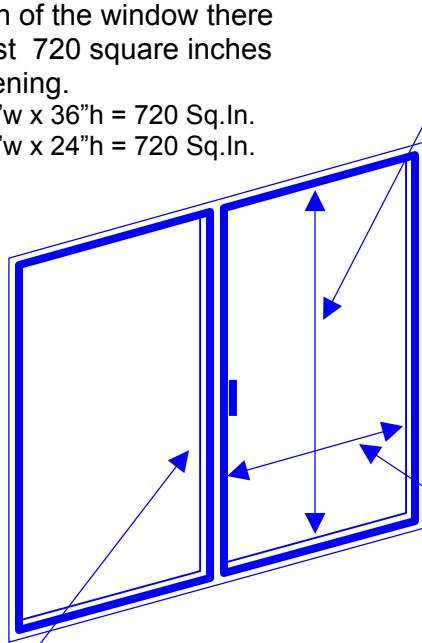
Example #2: 30"w x 24"h = 720 Sq.In.

The net clear height of the opening half of the window must be at least 24 inches.

The bottom of the opening in the window must be no more than 36" above the floor.

The net clear width of the opening half of the window must be at least 20 inches.

Locks, latches, operating handles, tabs, and any other window, screen or storm window devices which need to be operated in order to permit exiting shall not be located in excess of 54 inches from the finished floor.



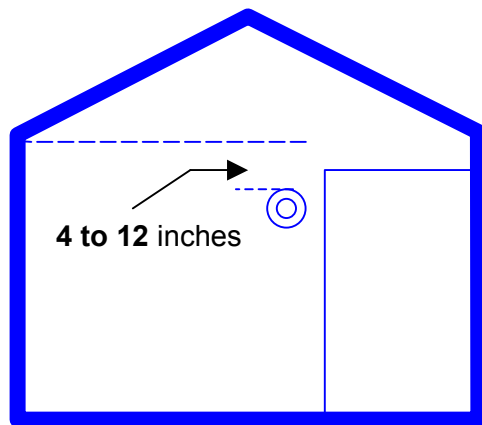
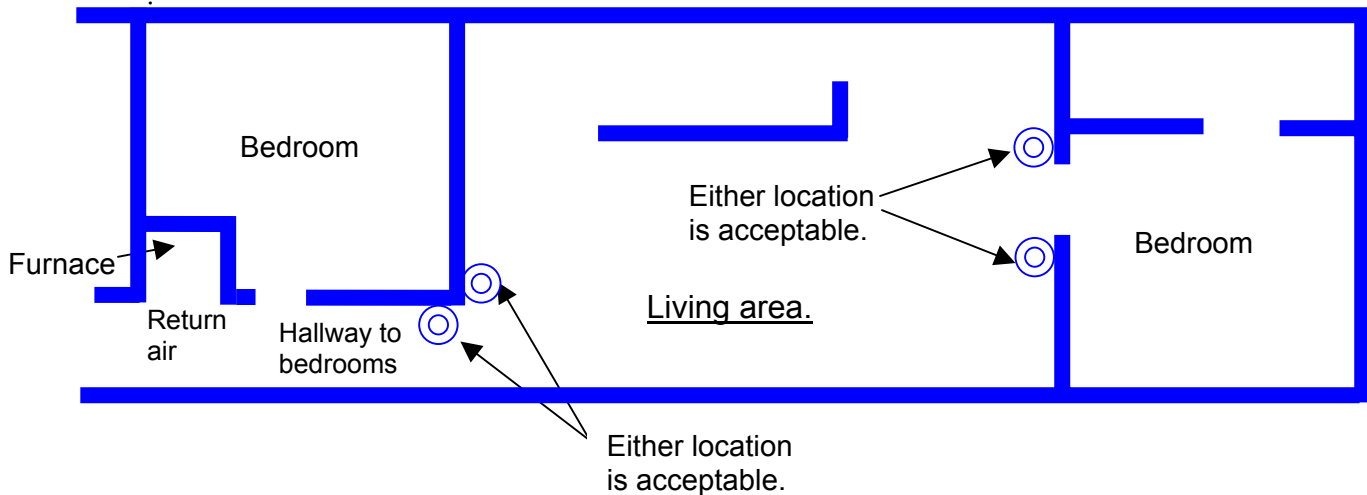
Floor line.

Smoke Detectors

Installation and location of smoke detectors in manufactured and mobile homes.

Smoke detectors are required at each hallway or area giving access to a bedroom or group of bedrooms. When a furnace is located in the hall giving access to the bedrooms the detector is to be located between the living area and the return air grill of the furnace. Smoke detectors must be installed on a wall, as shown below, even if the manufacturer's instructions allow the smoke detector to be installed on the ceiling. Smoke detectors must be permanently wired and installed on a J-box with splices terminating inside the box. The detector may not be switched and if more than one smoke detector is installed then each one is to be wired on a different branch circuit.

Smoke detectors in manufactured/mobile homes do not need to be wired together to sound simultaneous alarms. The smoke detector must bear either a label indicating it is UL approved or it must bear a label indicating it is tested to ULI-217. *Note: a smoke alarm with a rated life of ten years and provided with a listed 10 year battery can be used.*



In areas with flat or sloped ceilings the top of the smoke detector must be located between **4 and 12** inches below the point where the sidewall and ceiling of the home intersect.